ABSTRACT

A system and method is provided for cooperative execution of distributed tasks by networked computers without the use of a centralized controller to coordinate the task execution. Each computer has an execution agent that cooperates with the execution agents of the other computers to carry out the execution of a given sequence of tasks. The execution instructions for the task sequence are provided to a first computer in the selected set of computers for task execution. The first computer processes the instructions and forwards them to its peer computers so that each of them knows the tasks it is to perform in connection with the tasks of the other computers. The computers then executes the tasks assigned to them and use peer-to-peer communications to provide status update to their peer computers to synchronize and coordinate the task execution.